

December 15, 2006

Mr. Joseph Handy  
Handy Family Trust  
75 South Winooski Street  
Burlington, Vermont 05401

**RE: Site Investigation Report – Simon's Berlin  
1060 Route 302, Berlin, Vermont  
SMS Site #98-2558, Verterre Project No. 05-054**

Dear Mr. Handy:

The Verterre Group, Inc.<sup>®</sup> (Verterre) has prepared the enclosed Site Investigation Report to detail the findings of recent subsurface investigation activities at Simon's Berlin at 1060 Route 302 in Berlin, Vermont (the SITE). Verterre installed soil borings to assess the extent of petroleum contamination at the SITE.

On December 14, 2005, Verterre installed a single soil boring which was completed as a monitor well (MW-1). It was clear from the advancement of this boring that groundwater would be deeper than twenty (20) feet therefore, Verterre ceased drilling and contacted Environmental Drilling of New York to complete additional monitor wells. Four (4) additional monitor wells were completed on September 27, 2006.

On October 6, 2006, Verterre returned to the SITE to collect groundwater samples for volatile organic compound (VOC) analyses by US EPA Method 8021. Two (2) of the five (5) monitor wells contained VOCs above Vermont Groundwater Enforcement Standards (VGES).

Verterre recommends conducting an additional round of groundwater samples from all wells in the spring of 2007. Please do not hesitate to contact me if you have any questions regarding the enclosed report. I can be reached at (802) 654-8663, ext. 106, or via e-mail at [marthar@vterre.com](mailto:marthar@vterre.com).

Sincerely,  
**The Verterre Group, Inc.<sup>®</sup>**

Martha Roy  
Project Manager

*cc: Mr. Ashley Desmond, VT SMS.*  
G:\05052 Gracey's\0106 SI report.doc

Phase (check one)	Type (check one)
<input checked="" type="checkbox"/> Initial Site Investigation	<input type="checkbox"/> Work Scope
<input type="checkbox"/> Corrective Action Feasibility Investigation	<input checked="" type="checkbox"/> Technical Report
<input type="checkbox"/> Corrective Action Plan	<input type="checkbox"/> PCF Reimbursement Request
<input type="checkbox"/> Corrective Action Summary Report	<input type="checkbox"/> General Correspondence
<input type="checkbox"/> Operations & Monitoring Report	

**INITIAL SITE INVESTIGATION REPORT  
OCTOBER 2006**

**Simon's Berlin  
Route 302  
Berlin, Vermont**

**SMS Project Manager: Mr. Ashley Desmond  
SMS # 98-2558  
Verterre Project # 05054**

Date Submitted: December 15, 2006

Report Prepared for:  
Mr. Joseph Handy  
Handy Family Trust  
75 South Winooski Street  
Burlington, Vermont 05401

Written By: \_\_\_\_\_  
Martha Roy, Project Manager

Reviewed By: \_\_\_\_\_  
Steven Chase, Staff Scientist

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## **1.0 INTRODUCTION AND BACKGROUND**

This report was prepared by The Verterre Group, Inc.<sup>®</sup> (Verterre) on behalf of Mr. Joseph Handy to present the findings of our recent Site Investigation conducted at Simon's Berlin (the SITE). The SITE is located at 1060 VT Route 302 in Berlin, Washington County, Vermont (as shown on the SITE Location Map, **Figure 1**, and SITE Plan, **Figure 2**). The SITE is currently used as a retail gasoline station, convenience store and Dunkin Donuts Store.

On September 29 and 30, 1998, five (5) gasoline underground storage tanks (USTs) were removed from the SITE. During the site activities, screened soils had concentrations up to 141 parts per million (ppm) as measured by a photoionization detector (PID). The peak PID readings were measured at depths of 8 to 11 feet below ground surface (fbgs) in the excavation. The limits of soil contamination were not defined. All soil was used for backfill. As a result, the State of Vermont Sites Management Section (SMS) requested a subsurface investigation. Verterre conducted a subsurface investigation in January 2006, the results of which are summarized in this report.

## **2.0 COMPLETED WORK SCOPE**

The following activities were performed as part of this Site Investigation:

- Review of files at the Vermont Department of Environmental Conservation documenting past UST work;
- Clearance of the Site and vicinity for underground utilities by contacting Dig Safe;
- Advancement of five (5) on-SITE wells;
- Field screening of soil samples for the presence of volatile organic compounds (VOCs) with a PID;
- Collection of water samples for laboratory analysis of VOCs via US EPA Method 8021;
- Surveying of the soil borings, monitor wells, potential receptors, and important SITE features;
- Development of a SITE map including the pertinent surveyed features; and,
- Preparation of this SITE Investigation Report with findings, conclusions, and recommendations.

## **3.0 SUBSURFACE INVESTIGATION PROCEDURES**

The primary objective of the subsurface investigation was to evaluate the extent of contamination and to determine potential impact to area receptors. To accomplish these objectives, Verterre installed soil borings/monitor wells, conducted a site survey, and collected groundwater samples for laboratory analysis.

### **3.1 Advancement of Soil Borings**

On December 14, 2005, Verterre installed a single soil boring which was completed as a monitor well (MW-1). It was clear from the advancement of this boring that groundwater would be deeper than twenty (20) feet therefore, Verterre ceased drilling and contacted Environmental Drilling of New York to complete additional monitor wells. Four (4) additional monitor wells were completed on September 27, 2006.

A total of five (5) monitor wells have been completed in the locations shown on **Figure 2**. Logs for these borings are presented in **Appendix A**. These borings were advanced to depths ranging from approximately 22 to 24 feet below ground surface (bgs). All borings were logged, describing soil strata conditions, and field screened for VOCs with a PID using conventional headspace techniques. A Thermo Environmental Instruments Model 580B Organic Vapor Meter with a 10.6 eV photoionizing lamp was employed to detect the presence of VOCs. The PID was calibrated to a 100-ppmv isobutylene standard, referenced to benzene.

**BORING SUMMARY TABLE**

<b>Boring ID</b>	<b>Boring Location</b>	<b>Completed as Monitor Well</b>	<b>Depth of Boring (feet bgs) Max PID Reading (ppmv)</b>
<b>B-1</b>	Approximately 65 feet southeast of the current pump island.	MW-1	Depth: 24 Max PID: 2 (16-20 feet)
<b>B-101</b>	Approximately 35 feet west of the current pump island.	MW-2	Depth: 22 Max PID: 33 (12-14 feet)
<b>B-102</b>	Approximately 30 feet northwest of the current pump island.	MW-3	Depth: 22 Max PID: 19.7 (10-12 feet)
<b>B-103</b>	Approximately 60 feet northeast of the current pump island.	MW-4	Depth: 22 Max PID: 7.8 (16-18 feet)
<b>B-104</b>	Approximately 85 feet northeast of the current pump island.	MW-5	Depth: 22 Max PID: 2.3 (12-14 feet)

### 3.2 Site Geology

Based on the soil boring evaluation, the general soil stratigraphy of the SITE (near borings) consists of sand and gravel. For a more detailed description of geological units, see the Boring Logs in **Appendix A**.

### 3.3 Site Survey

Following the subsurface investigation, a SITE survey was conducted on October 6, 2006. A Topcon AT-G6 auto level was used to perform a stadia survey to identify the location of the soil borings and other pertinent SITE features. The collected data was used to create the SITE Plan (**Figure 2**).

## 4.0 GROUNDWATER SAMPLING

### 4.1 Water Table Elevation and Groundwater Flow Direction

On October 6, 2006, depth to water levels ranged from 15.70 to 17.24 feet bgs in MW-5 and MW-1, respectively.

Groundwater underlying the SITE at the time of sampling was calculated to flow in a northerly direction. The calculated hydraulic gradient between MW-1 and the 82.2 foot contour line was 0.002

feet/foot. The groundwater elevation data is summarized on **Table 1**. A Groundwater Contour Plan is presented as **Figure 3**.

## 4.2 Groundwater Sampling

Verterre returned to the SITE on October 6, 2006 to collect groundwater samples for laboratory analysis. The samples were submitted for VOC analysis via US EPA Method 8021.

Resource Laboratories of Portsmouth, New Hampshire, performed all laboratory analyses for this investigation. The analytical results are discussed in **Section 5.0**.

## 5.0 ANALYTICAL RESULTS

### 5.1 Analytical Results

The October 2006 sampling results are summarized on **Table 2**. The complete analytical laboratory report for the January 2006 samples is provided in **Attachment 1** and a Contaminant Distribution Plan is presented as **Figure 4**.

The maximum concentration of contaminants of concern (COCs) were reported in MW-4 at a concentration of 2,908 micrograms per liter ( $\mu\text{g/l}$ ). MW-4 is located approximately 60 feet northeast of the current pump island approximately 15 feet to the north of the current USTs. COCs were also reported above the method detection limits (MDLs) in MW-2 (262  $\mu\text{g/l}$ ), MW-3 (27  $\mu\text{g/l}$ ) and MW-5 (8  $\mu\text{g/l}$ ). COCs were not reported above the MDLs in MW-1.

The maximum concentration of benzene was reported in MW-4 at a concentration of 170  $\mu\text{g/l}$ . This concentration is above the Vermont Groundwater Enforcement Standard (VGES) of 5  $\mu\text{g/l}$ . Benzene was also reported above the VGES in MW-2 (52  $\mu\text{g/l}$ ). Benzene was reported above the MDL in any other sampled well.

Toluene was not reported above the MDL in any sampled well.

Ethylbenzene was reported in MW-4 at 160  $\mu\text{g/l}$ . This concentration is below the VGES of 700  $\mu\text{g/l}$  for ethylbenzene. Ethylbenzene was not reported above the MDL in any other sampled well.

The maximum concentration of total xylenes was reported in MW-4 at 1,300  $\mu\text{g/l}$ . This concentration is below the VGES of 10,000  $\mu\text{g/l}$  for total xylenes. Total xylenes were also reported below the VGES in MW-2 (75  $\mu\text{g/l}$ ). Total xylenes were not reported above the MDL in any other sampled well.

The maximum concentration of methyl tert butyl ether (MTBE) was reported in MW-4 at 350  $\mu\text{g/l}$ . This concentration is above the VGES of 40  $\mu\text{g/l}$ . MTBE was reported above the VGES in MW-2 (61  $\mu\text{g/l}$ ). MTBE was reported above the MDL but below the VGES in MW-3 (27  $\mu\text{g/l}$ ) and MW-5 (8  $\mu\text{g/l}$ ). MTBE was not reported above the MDL in MW-1.

The maximum concentration of 1,3,5-trimethylbenzene (135 TMB) was reported in MW-4 at 190 µg/l. This concentration is above the VGES of 4.0 µg/l for 135 TMB. 135 TMB was also reported above the VGES in MW-2 (23 µg/l). 135 TMB was not reported above the MDL in any other sampled well.

The maximum concentration of 1,2,4-trimethylbenzene (124 TMB) was reported in MW-4 at 650 µg/l. This concentration is above the VGES of 5.0 µg/l for 124 TMB. 124 TMB was also reported above the VGES in MW-2 (51 µg/l). 124 TMB was not reported above the MDL in any other sampled well.

The maximum concentration of naphthalene was reported in MW-4 at 88 µg/l. This concentration is above the VGES of 20 µg/l for naphthalene. Naphthalene was not reported above the MDL in any other sampled well.

## 5.2 QA/QC Results

The Relative Percent Difference (RPD) for total COCs between MW-3 and its duplicate, DUP-1 was not calculated because some results were less than 10 times the MDLs. An RPD of up to 25% is generally considered acceptable for precision.

The laboratory data was evaluated for the following parameters prior to acceptance in this report:

- Correct sample ID's;
- Analysis date within method specified holding times;
- Acceptable detection limit multipliers;
- Acceptable matrix spike (MS) and matrix spike duplicate (MSD) recoveries, where applicable;
- Acceptable RPD between the MS and MSD, where applicable; and,
- Acceptable surrogate recoveries.

Based on Verterre's evaluation of these parameters, the data was determined to be acceptable.

## 6.0 RECEPTOR EVALUATION

Sensitive receptors on and in the vicinity of the SITE include: soil, groundwater, surface waters, area supply wells, and utility corridors. The building is on a concrete slab. Homes and businesses in the area are on municipal water and sewer.

The Stevens Branch River is located 25 feet to the northeast (see **Figure 2**).

Based on the Private Well Locator interactive map on the Vermont Agency of Natural Resources website, there are 15 supply wells located within a ½ mile radius of the SITE. The closest well is located approximately 780 feet to the northeast across the Stevens Branch.

## 7.0 FINDINGS AND CONCLUSIONS

Based on the investigation results, Verterre provides the following findings and conclusions regarding this SITE:

- Five (5) soil borings were advanced to define the degree and extent of contamination;
- Five (5) of these borings were completed as groundwater monitoring wells;
- A SITE survey was completed, and borings, the monitor wells, and additional features were added to the SITE map;
- Groundwater has been interpreted to flow northerly across the SITE;
- VOC concentrations exceed the VGES in two (2) of the five (5) monitor wells;
- Threatened and impacted receptors associated with the SITE primarily include soil and groundwater beneath the SITE and utility corridors.

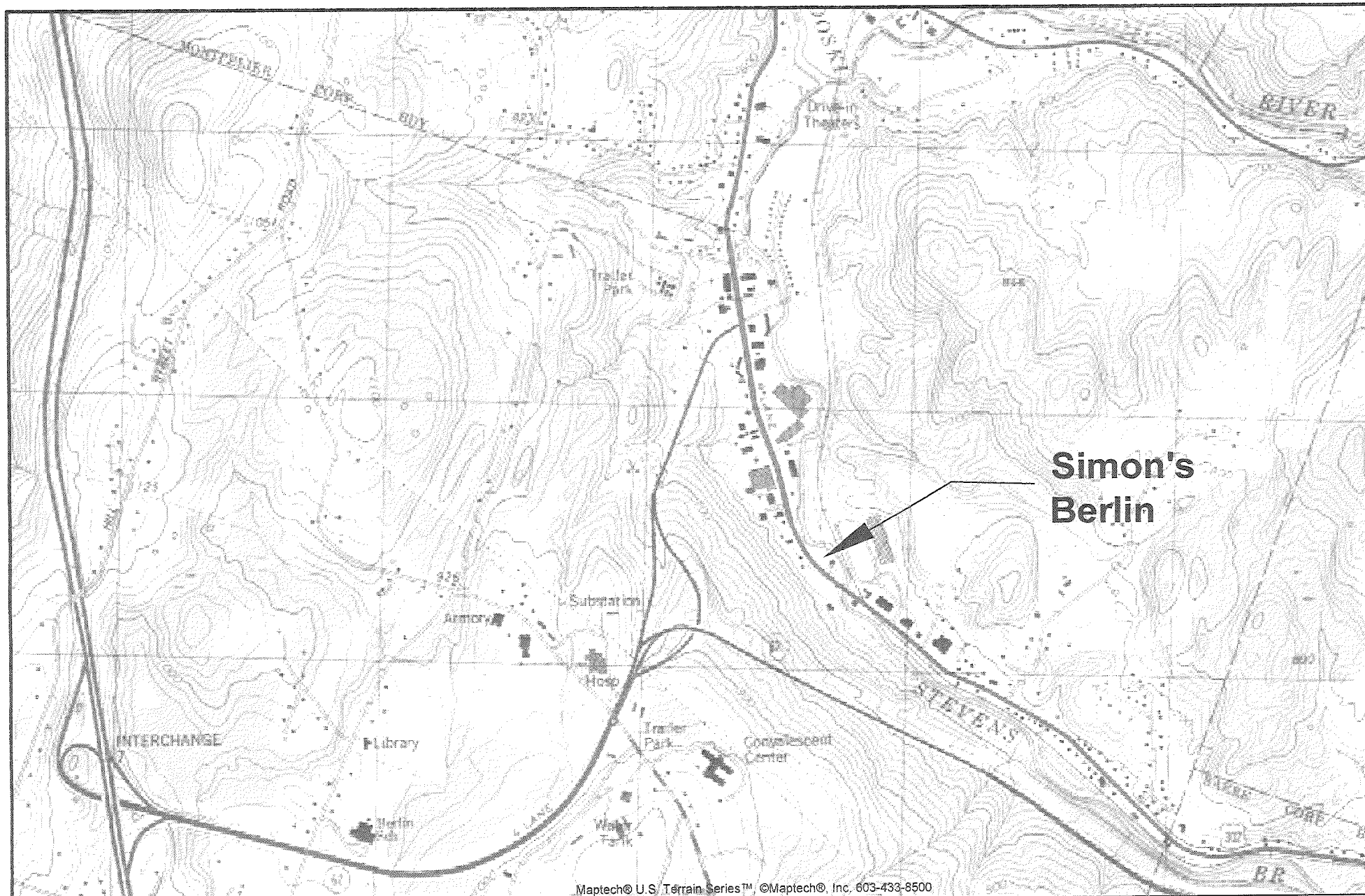
## **8.0 RECOMMENDATIONS**

Verterre recommends conducting an additional round of groundwater samples from all wells in the spring of 2007.

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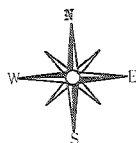
## FIGURES



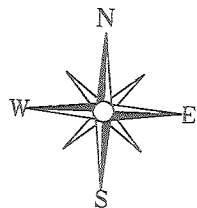


SOURCE: USGS 7.5' Minute Topographic Map Series Barre-West, Vermont Quadrangle. Created 1978, revised/inspected 1988.

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Project #05054	DRAWN BY: SRC	<b>The Verterre Group, Inc.®</b> 414 Roosevelt Highway - Suite 200 Colchester, Vermont 05446 (802) 654-8663	<b>FIGURE 1</b> <b>SITE LOCATION MAP</b> Simon's Berlin 1060 Route 302 Berlin, Vermont
	CHECKED BY: <u>MER</u>		
	APPROVED BY: _____		
	DATE: 12/08/06 SCALE: 1" = 1,000'		



THE STEVENS  
BRANCH

DIESEL  
UST

DIESEL  
PUMP

FIRE  
HYDRANT

BRIDGE

TBM  
(GEODETIC  
SURVEY  
POINT)

**SIMON'S  
BERLIN**

**GASOLINE  
UST'S**

PUMP  
ISLAND

CATCH  
BASIN

WATER  
SHUTOFF

SEPTIC

## LEGEND

Monitoring Well

**VERMONT  
STATE  
CREDIT  
UNION**

ROUTE 302

0 20 40  
SCALE  
1"=40'

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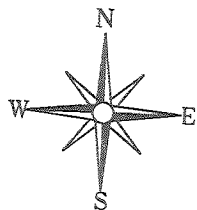
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#05054

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DATE: 12/13/06  
SCALE: 1" = 40'

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**FIGURE 2  
SITE PLAN**

Simon's Berlin  
Berlin, Vermont



THE STEVENS  
BRANCH

DIESEL  
UST

BRIDGE

SIMON'S  
BERLIN

GASOLINE  
UST'S

PUMP  
ISLAND

DIESEL  
PUMP

FIRE  
HYDRANT

CATCH  
BASIN

WATER  
SHUTOFF

SEPTIC

ROUTE 302

## LEGEND



Monitoring Well

(82.15)

Groundwater Elevation on October  
6, 2006 in units of feet ref. to a  
TBM

82.3

Groundwater Contour line based  
on October 6, 2006 data



Groundwater Flow Direction based  
on October 6, 2006 data

VERMONT  
STATE  
CREDIT  
UNION

0 20 40  
SCALE  
1"=40'

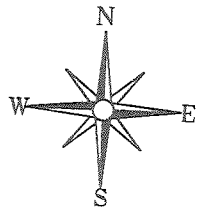
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SCALE: 1" = 40'

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FIGURE 3  
GROUNDWATER CONTOUR PLAN  
October 6, 2006  
Simon's Berlin  
Berlin, Vermont



THE STEVENS  
BRANCH

DIESEL  
UST

DIESEL  
PUMP

FIRE  
HYDRANT

BRIDGE

TBM  
(GEODETIC  
SURVEY  
POINT)

**SIMON'S  
BERLIN**

SEPTIC

PUMP  
ISLAND

CATCH  
BASIN

WATER  
SHUTOFF

**GASOLINE  
UST'S**

## LEGEND



Monitoring Well

(2,908) Concentration of Total Contaminants  
of Concern on October 6, 2006

(nd) Not Detected

**VERMONT  
STATE  
CREDIT  
UNION**

ROUTE 302

0 20 40  
SCALE  
1"=40'

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DATE: 12/13/06  
SCALE: 1" = 40'

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**FIGURE 4  
COC DISTRIBUTION PLAN**  
October 6, 2006  
Simon's Berlin  
Berlin, Vermont

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## TABLES

**TABLE 1**

**Simon's Berlin  
Berlin, Vermont**

**Summary of Groundwater Elevations**

**October 6, 2006**

<b>Well Identification</b>	<b>Top of Riser Elevation</b>	<b>Depth to Product</b>	<b>Depth to Water</b>	<b>Depth of Well</b>	<b>Thickness of Water in Well</b>	<b>Water Table Elev.</b>
MW-1	99.72	ND	17.24	23.40	6.16	82.48
MW-2	98.29	ND	15.95	21.80	5.85	82.34
MW-3	98.49	ND	16.25	21.75	5.50	82.24
MW-4	98.38	ND	16.11	21.53	5.42	82.27
MW-5	97.85	ND	15.70	21.70	6.00	82.15

- Notes:
1. Elevation data is referenced to a TBM. Units are in feet.
  2. ND - not detected.
  3. NM - not measured.
  4. Measurements recorded are referenced to a marking on top of PVC riser for each well.
  5. Depth to fluid measurements were obtained using a Solinst Interface Probe.

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TABLE 2  
SUMMARY OF GROUNDWATER QUALITY

Simon's Berlin  
Berlin, Vermont

October 6, 2006

Compound	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	1,3,5- Trimethylbenzene	1,2,4- Trimethylbenzene	Naphthalene	Total COC
Sample ID	Concentration (ug/L)								
MW-1	<2	<2	<2	<4	<2	<2	<2	<5	nd
MW-2	<b>52</b>	<2	<2	75	<b>61</b>	<b>23</b>	<b>51</b>	<5	262
MW-3	<2	<2	<2	<4	27	<2	<2	<5	27
MW-4	<b>170</b>	<10	160	1,300	<b>350</b>	<b>190</b>	<b>650</b>	<b>88</b>	2,908
MW-5	<2	<2	<2	<4	8	<2	<2	<5	8
DUP-1	<2	<2	<2	<4	28	<2	<2	<5	28
Field Blank	<2	<2	<2	<4	<2	<2	<2	<5	nd
VGES	5.0	1,000	700	10,000	40.0	4.0	5.0	20.0	ne

Notes:

1. VGES - Vermont Groundwater Enforcement Standard.
2. All samples were analyzed for 8021 VOCs via US EPA Method 8260.
3. ne - VGES not established.
4. **Bold** and *Italic* numbers indicate concentrations that exceed VGES.
5. DUP-1 Duplicate sample of monitoring well MW-3. Collected for Quality Assurance/Quality Control.
6. ns - not sampled, nt - not tested, COC - contaminants of concern.
7. MW-1 installed on December 14, 2005 by Verterre.
8. MW-2 - MW-5 installed on September 27, 2006 by Verterre.

**Relative Percent Difference**

The RPD for total COC and MTBE between MW-3 and DUP-1 was not calculated because the results were less than 10 times the MDL.

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## **APPENDIX A**




**THE VERTERRE GROUP, INC.**
*(Environmental Services and Consulting)*
**The Verterre Group, Inc.®**

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 (802) 654-8663 FAX: (802) 654-8667

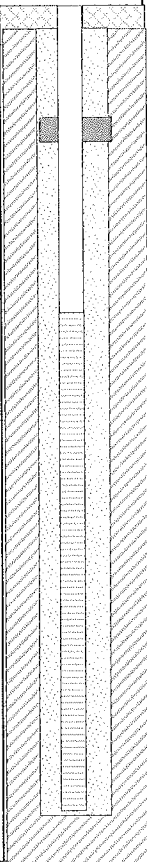







**MONITORING WELL/SOIL BORING LOG**

 Project Name: **Simon's Berlin Store**

 Location: **1060 Route 302**
**Berlin, Vermont**

 Verterre Project #: **05054**
**WELL/  
BORING ID:**
**MW-1/B-1**

(802) 634-8665 FAX: (802) 634-8667					
INSTALL DATE:	December 14, 2005	WELL DEPTH:	24 ft bgs	BORING DEPTH:	24 ft bgs
VERTERRE REP:	Rod Lindsay	DEPTH TO WATER:	(during drilling)	Approximately 16 ft bgs	
DRILLING CO:	Verterre Colchester, VT	SCREEN DIA:	1 inch	DEPTH:	9-24 ft bgs
		SCREEN TYPE/SIZE:	0.010"-slot Schedule 40 PVC		
DRILLING METHOD:	Geoprobe Tools	RISER TYPE:	40 Schedule PVC		
SAMPLING METHOD:	Macrocore	RISER DIA.:	1 inch	DEPTH:	0-9 ft bgs
REFERENCE POINT (RP):	Top of casing	GUARD TYPE:	Aluminum road box		
ELEVATION OF RP:	99.72 ft	RISER CAP:	Locking expansion plug		
REMARKS:	Boring completed as a monitoring well.				

DEPTH IN FEET	WELL PROFILE	SAMPLE DEPTH (FT)	PID (PPMV)	BLOWS/6" AND RECOVERY	SOIL DESCRIPTION AND NOTES*	LEGEND
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25		0-4    4-8   8-12   12-16   16-20   20-24	<0.1    <0.1   0.7   1.3   2.0   1.4	36" recovery    18" recovery   40" recovery   42" recovery   48" recovery	0-3": ASPHALT. 3-23": SAND, fine to coarse, brown, some silt. 23-36": SILT and very fine sand, dry to moist.  SILT, fine, brown, some gravel, wet.  0-18": SILT, brown, some gravel, moist.  0-40": SILT, brown, some gravel, some wood debris; some cobble; moist to wet.  0-24": SILT, brown, some gravel, some wood debris. 24-42": SAND, medium to coarse, gray; saturated.  0-48": SAND, fine to coarse, gray; some gravel; trace silt; saturated.	 CEMENT GROUT  NATIVE BACKFILL  BENTONITE SEAL  SAND PACK  WELL SCREEN  RISER PIPE HS HEAD SPACE  WATER LEVEL (APPROXIMATE)
GRANULAR SOILS BLOWS/FT DENSITY 0-4 V.LOOSE 4-10 LOOSE 10-30 M.DENSE 30-50 DENSE >50 V.DENSE		COHESIVE SOILS BLOWS/FT DENSITY <2 V.SOFT 2-4 SOFT 4-8 M.STIFF 8-15 STIFF 15-30 V.STIFF >30 HARD		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35% AND 35-50%	NOTES: See Figure 2, Site Plan, for boring location.	


**THE VERTERRE GROUP, INC.**
*Environmental Services and Construction*
**The Verterre Group, Inc.®**

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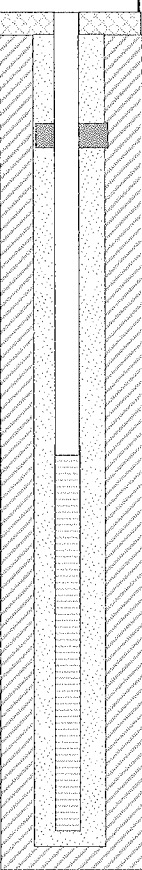







**MONITORING WELL/SOIL BORING LOG**

 Project Name: **Simon's Berlin Store**

 Location: **1060 Route 302**
**Berlin, Vermont**

 Verterre Project #: **05054**
**WELL/  
BORING ID:**
**MW-2/B-101**

INSTALL DATE:	September 27, 2006	WELL DEPTH:	22 ft bgs	BORING DEPTH:	22 ft bgs
VERTERRE REP:	Steven Chase	DEPTH TO WATER:	(during drilling)	Approximately 16 ft bgs	
DRILLING CO:	Environmental Drilling Glens Falls, NY	SCREEN DIA:	2 inch	DEPTH:	12-22 ft bgs
		SCREEN TYPE/SIZE:	0.010"-slot Schedule 40 PVC		
DRILLING METHOD:	Auger	RISER TYPE:	40 Schedule PVC		
SAMPLING METHOD:	Split Spoon	RISER DIA.:	2 inch	DEPTH:	0-12 ft bgs
REFERENCE POINT (RP):	Top of casing	GUARD TYPE:	Aluminum road box		
ELEVATION OF RP:	98.29 ft	RISER CAP:	Locking expansion plug		
REMARKS:	Boring completed as a monitoring well.				

DEPTH IN FEET	WELL PROFILE	SAMPLE DEPTH (FT)	PID (PPMV)	BLOWS/6" AND RECOVERY	SOIL DESCRIPTION AND NOTES*	LEGEND
0		0-2	1.3	12" recovery	0-12": Gray silt, dense some fine brown sand.	 CEMENT GROUT
1						
2		2-4	1.5	13" recovery	0-13": Gray silt, dense some fine brown sand.	 NATIVE BACKFILL
3						
4		4-6	2.3	16" recovery	0-16": Gray silt, some fine brown sand, trace gravel, moist.	 BENTONITE SEAL
5						
6		6-8	10	17" recovery	0-17": Gray silt, some fine brown sand, trace gravel, moist.	 SAND PACK
7						
8		8-10	22.6	16" recovery	0-16": Very fine gray sand, trace moist cobble, some silt.	 WELL SCREEN
9						
10		10-12	30.5	18" recovery	0-18": Very fine gray sand, trace moist cobble, some silt.	 RISER PIPE
11						
12		12-14	33.0	20" recovery	0-16": Very fine gray sand, trace moist cobble, some silt. 18-20": Very fine gray to white sand.	HS HEAD SPACE
13						
14		14-16	25.4	16" recovery	0-5": Sand, medium to coarse, white to gray. 5-12": Fine gray sand, some coarse. 12-16": Sand, medium to coarse, white to gray, moist, tip was wet.	 WATER LEVEL (APPROXIMATE)
15						
16		16-18	11.2	15" recovery	0-15": Fine to coarse, trace silt, trace cobble, saturated.	
17						
18		18-20	2.3	12" recovery	0-7": Gray gravel. 7-12": Dense gray silt, saturated.	
19						
20		20-22	1.9	10" recovery	0-10": Dense gray silt, some large cobble.	
21						
22						
23						
24						
25						
GRANULAR SOILS BLOWS/FT DENSITY 0-4 V.LOOSE 4-10 LOOSE 10-30 M.DENSE 30-50 DENSE >50 V.DENSE		COHESIVE SOILS BLOWS/FT DENSITY <2 V.SOFT 2-4 SOFT 4-8 M.STIFF 8-15 STIFF 15-30 V.STIFF >30 HARD		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35% AND 35-50%	NOTES: See Figure 2, Site Plan, for boring location.	


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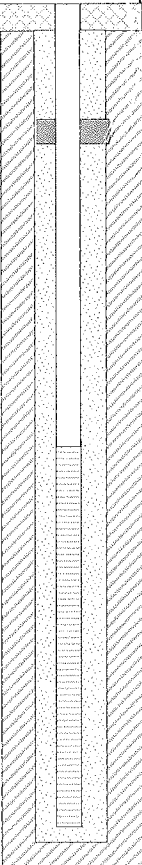







**MONITORING WELL/SOIL BORING LOG**

 Project Name: **Simon's Berlin Store**

 Location: **1060 Route 302**
**Berlin, Vermont**

 Verterre Project #: **05054**
**WELL/  
BORING ID:**
**MW-3/B-102**

INSTALL DATE:	September 27, 2006	WELL DEPTH:	22 ft bgs	BORING DEPTH:	22 ft bgs
VERTERRE REP:	Steven Chase	DEPTH TO WATER:	(during drilling)	Approximately 16 ft bgs	
DRILLING CO:	Environmental Drilling Glens Falls, NY	SCREEN DIA:	2 inch	DEPTH:	12-22 ft bgs
		SCREEN TYPE/SIZE: 0.010"-slot Schedule 40 PVC			
DRILLING METHOD:	Auger	RISER TYPE:	40 Schedule PVC		
SAMPLING METHOD:	Split Spoon	RISER DIA.:	2 inch	DEPTH:	0-12 ft bgs
REFERENCE POINT (RP):	Top of casing	GUARD TYPE:	Aluminum road box		
ELEVATION OF RP:	98.49 ft	RISER CAP:	Locking expansion plug		
REMARKS:	Boring completed as a monitoring well.				

DEPTH IN FEET	WELL PROFILE	SAMPLE DEPTH (FT)	PIU (PPMV)	BLOWS/6" AND RECOVERY	SOIL DESCRIPTION AND NOTES*	LEGEND
0		0-2	16.3	12" recovery	0-10": Gray silt, with small cobble. 10-12": Brown sand, fine to medium.	 CEMENT GROUT
1						
2		2-4	11.0	12" recovery	0-6": Brown sandy gravel. 6-12": Brown silt and very fine sand.	 NATIVE BACKFILL
3						
4		4-6	6.3	14" recovery	0-14": Dense gray silt, some coarse brown sand with trace gravel, moist.	 BENTONITE SEAL
5						
6		6-8	7.0	16" recovery	0-16": Dense gray silt, some coarse brown sand with trace gravel, moist.	 SAND PACK
7						
8		8-10	6.7	9" recovery	0-9": Dense gray silt with some fine brown sand, moist.	 WELL SCREEN
9						
10		10-12	19.7	11" recovery	0-11": Gray silt mixed with very fine gray sand and woody debris.	 RISER PIPE
11						
12		12-14	11.0	16" recovery	0-5": Gray silt with fine sand. 5-16": Sand, very fine to coarse, some silt and wood debris.	HS HEAD SPACE
13						
14		14-16	6.3	16" recovery	0-16": Sand, fine to coarse, gray and white, wet at tip.	 WATER LEVEL (APPROXIMATE)
15						
16		16-18	5.7	12" recovery	0-12": Gray sand, fine to medium, some silt, trace gravel, saturated.	
17						
18		18-20	4.5	9" recovery	0-3": Sandy gravel. 3-9": Dense packed gray silt.	
19						
20		20-22	2.3	18" recovery	0-6": Sandy gravel. 6-18": Dense gray silt, some fine sand, saturated.	
21						
22						
23						
24						
25						
GRANULAR SOILS		COHESIVE SOILS		PROPORTIONS USED	NOTES:	See Figure 2, Site Plan, for boring location.
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY	TRACE		
0-4	V.LOOSE	<2	V.SOFT	LITTLE	0-10%	
4-10	LOOSE	2-4	SOFT	SOME	10-20%	
10-30	M.DENSE	4-8	M.STIFF	AND	20-35%	
30-50	DENSE	8-15	STIFF		35-50%	
>50	V.DENSE	15-30	V.STIFF			
		>30	HARD			


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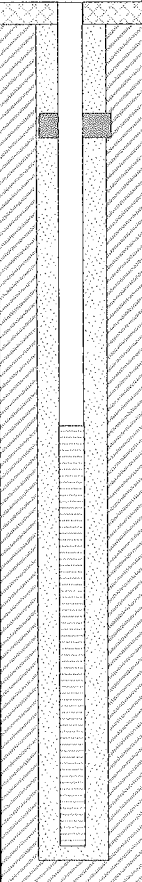







**MONITORING WELL/SOIL BORING LOG**

 Project Name: **Simon's Berlin Store**

 Location: **1060 Route 302**
**Berlin, Vermont**

 Verterre Project #: **05054**
**WELL/  
BORING ID:  
MW-4/B-103**

INSTALL DATE:	September 27, 2006	WELL DEPTH:	22 ft bgs	BORING DEPTH:	22 ft bgs
VERTERRE REP:	Steven Chase	DEPTH TO WATER:	(during drilling)	Approximately 16 ft bgs	
DRILLING CO:	Environmental Drilling Glens Falls, NY	SCREEN DIA:	2 inch	DEPTH:	12-22 ft bgs
		SCREEN TYPE/SIZE:	0.010"-slot Schedule 40 PVC		
DRILLING METHOD:	Auger	RISER TYPE:	40 Schedule PVC		
SAMPLING METHOD:	Split Spoon	RISER DIA.:	2 inch	DEPTH:	0-12 ft bgs
REFERENCE POINT (RP):	Top of casing	GUARD TYPE:	Aluminum road box		
ELEVATION OF RP:	98.38 ft	RISER CAP:	Locking expansion plug		
REMARKS:	Boring completed as a monitoring well.				

DEPTH IN FEET	WELL PROFILE	SAMPLE DEPTH (FT)	PID (PPMV)	BLOWS/6" AND RECOVERY	SOIL DESCRIPTION AND NOTES*	LEGEND
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25		0-2  2-4  4-6  6-8  8-10  10-12  12-14  14-16  16-18  18-20  20-22	3.1  3.9  3.3  2.5  2.9  2.5  1.7  6.1  7.8  0.7  3.7	13" recovery  8" recovery  11" recovery  18" recovery  17" recovery  12" recovery  16" recovery  14" recovery  15" recovery  8" recovery  14" recovery	0-13": Fine brown sand, with some large cobble.  0-8": Fine brown sand, with some large cobble.  0-14": Fine brown sand, with some large cobble.  0-18": Fine brown sand, small amount of silt.  0-17": Fine brown sand, small amount of silt.  0-12": Fine brown silt, with some fine to coarse brown sand.  0-16": Fine to medium brown sand with some silts.  0-12": Fine to medium brown sand with some silts, moist. 12-14": Fine gray sand, trace silt, wet  0-7": Fine to coarse gray sand, some brown sand, some silt, wet, old petro odor. 7-9": Fine gray silt, wet, old petro odor. 9-15": Gray gravel with some silt, wet, old petro odor.  0-8": Gray gravel and large cobble.  0-14": Coarse gray sand and gravel.	 CEMENT GROUT  NATIVE BACKFILL  BENTONITE SEAL  SAND PACK  WELL SCREEN  RISER PIPE  HS HEAD SPACE  WATER LEVEL (APPROXIMATE)
GRANULAR SOILS BLOWS/FT DENSITY 0-4 V.LOOSE 4-10 LOOSE 10-30 M.DENSE 30-50 DENSE >50 V.DENSE		COHESIVE SOILS BLOWS/FT DENSITY <2 V.SOFT 2-4 SOFT 4-8 M.STIFF 8-15 STIFF 15-30 V.STIFF >30 HARD		PROPORTIONS USED TRACE 0-10% LITTLE 10-20% SOME 20-35% AND 35-50%	NOTES: See Figure 2, Site Plan, for boring location.	


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**MONITORING WELL/SOIL BORING LOG**

 Project Name: **Simon's Berlin Store**

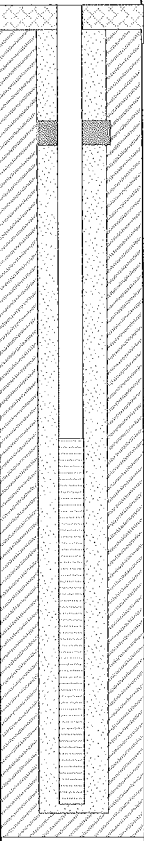







 Location: **1060 Route 302**
**Berlin, Vermont**

 Verterre Project #: **05054**

 WELL/  
BORING ID:

**MW-5/B-104**

INSTALL DATE:	September 27, 2006	WELL DEPTH:	22 ft bgs	BORING DEPTH:	22 ft bgs
VERTERRE REP:	Steven Chase	DEPTH TO WATER:	(during drilling)	Approximately 16 ft bgs	
DRILLING CO:	Environmental Drilling Glens Falls, NY	SCREEN DIA:	2 inch	DEPTH:	12-22 ft bgs
		SCREEN TYPE/SIZE:	0.010"-slot Schedule 40 PVC		
DRILLING METHOD:	Auger	RISER TYPE:	40 Schedule PVC		
SAMPLING METHOD:	Split Spoon	RISER DIA.:	2 inch	DEPTH:	0-12 ft bgs
REFERENCE POINT (RP):	Top of casing	GUARD TYPE:	Aluminum road box		
ELEVATION OF RP:	97.85 ft	RISER CAP:	Locking expansion plug		
REMARKS:	Boring completed as a monitoring well.				

DEPTH IN FEET	WELL PROFILE	SAMPLE DEPTH (FT)	PID (PPMV)	BLOWS/6" AND RECOVERY	SOIL DESCRIPTION AND NOTES*	LEGEND
0		0-2	0.9	10" recovery	0-10": Gray silt, dense with some brown sand, medium.	 CEMENT GROUT
1						
2		2-4	1.9	11" recovery	0-11": Gray silt, dense with some brown sand, medium.	 NATIVE BACKFILL
3						
4		4-6	0.7	11" recovery	0-2": Gray silt with some brown sand. 2-11": Fine brown sand.	 BENTONITE SEAL
5						
6		6-8	1.7	17" recovery	0-17": Fine brown sand, small lense of coarse sand, some silt and wood debris.	 SAND PACK
7						
8		8-10	1.5	14" recovery	0-14": Fine brown sand, trace silt with small cobble.	 WELL SCREEN
9						
10		10-12	1.1	14" recovery	0-14": Fine brown silt, trace fine brown sand.	 RISER PIPE
11						
12		12-14	2.3	22" recovery	0-3": Fine brown silt, trace fine sand. 3-12": Fine brown/white sand. 12-22": Medium brown/white sand.	HS HEAD SPACE
13						
14		14-16	2.1	9" recovery	0-6": Coarse brown/white sand. 6-9": Fine brown sand, some silt, wet	 WATER LEVEL (APPROXIMATE)
15						
16		16-18	1.1	9" recovery	0-9": Coarse brown sand, with large cobble, saturated.	
17						
18		18-20	0.9	5" recovery	0-5": Coarse brown sand, with large cobble, saturated.	
19						
20		20-22	0.7	18" recovery	0-8": Coarse gray sand. 8-18": Dense gray silt, saturated.	
21						
22						
23						
24						
25						
GRANULAR SOILS		COHESIVE SOILS		PROPORTIONS USED	NOTES: See Figure 2. Site Plan, for boring location.	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY	TRACE		
0-4	V.LOOSE	<2	V.SOFT	LITTLE	0-10%	
4-10	LOOSE	2-4	SOFT	SOME	10-20%	
10-30	M.DENSE	4-8	M.STIFF	SOME	20-35%	
30-50	DENSE	8-15	STIFF	AND	35-50%	
>50	V.DENSE	15-30	V.STIFF			
		>30	HARD			

---

## **ATTACHMENT 1**

## Laboratory Report

Martha Roy  
The Verterre Group  
414 Roosevelt Highway  
Suite 200  
Colchester, VT 05446

PO Number: None  
LabID: 11112  
Date Received: 10/7/06

Project: 05054 Simon's Berlin Store

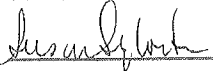
Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Resource Laboratories, LLC maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,  
Resource Laboratories, LLC



---

Susan Sylvester  
Principal, General Manager

10-16-06  
Date

Total number of pages

9

### Resource Laboratories, LLC Certifications

New Hampshire 1732  
Maine NH903

Massachusetts M-NH902

Lab Number: 11112-01  
 Sample Designation: MW-1  
 Date Sampled: 10/6/06  
 Date Analyzed: 10/10/06  
 Matrix: Water  
 Instrument Dilution Factor: 1  
 Analyst: LMM

VOLATILE ORGANICS  
 SW 846 Method 5030B/8260B

	Concentration	Quantitation Limit
	ug/L	ug/L
methyl t-butyl ether (MTBE)	U	2
benzene	U	2
toluene	U	2
ethylbenzene	U	2
m&p-xylenes	U	2
o-xylene	U	2
naphthalene	U	5
1,3,5-trimethylbenzene	U	2
1,2,4-trimethylbenzene	U	2
SURROGATE STANDARDS	Recovery (%)	Acceptance Limits
dibromofluoromethane	100	78-114
toluene-D8	105	88-110
4-bromofluorobenzene	103	86-115

U = Below quantitation limit



Lab Number: 11112-02  
Sample Designation: MW-2  
Date Sampled: 10/6/06  
Date Analyzed: 10/10/06  
Matrix: Water  
Instrument Dilution Factor: 1  
Analyst: LMM

VOLATILE ORGANICS  
SW 846 Method 5030B/8260B

	Concentration	Quantitation Limit
	ug/L	ug/L
methyl t-butyl ether (MTBE)	61	2
benzene	52	2
toluene	U	2
ethylbenzene	U	2
m&p-xylenes	75	2
o-xylene	U	2
naphthalene	U	5
1,3,5-trimethylbenzene	23	2
1,2,4-trimethylbenzene	51	2

SURROGATE STANDARDS	Recovery (%)	Acceptance Limits
dibromofluoromethane	105	78-114
toluene-D8	110	88-110
4-bromofluorobenzene	102	86-115

U = Below quantitation limit

Note: The sample pH was greater than 2, indicating inadequate preservation.

Lab Number: 11112-03  
Sample Designation: MW-3  
Date Sampled: 10/6/06  
Date Analyzed: 10/11/06  
Matrix: Water  
Instrument Dilution Factor: 1  
Analyst: LMM

VOLATILE ORGANICS  
SW 846 Method 5030B/8260B

	Concentration	Quantitation Limit
	ug/L	ug/L
methyl t-butyl ether (MTBE)	27	2
benzene	U	2
toluene	U	2
ethylbenzene	U	2
m&p-xylenes	U	2
o-xylene	U	2
naphthalene	U	5
1,3,5-trimethylbenzene	U	2
1,2,4-trimethylbenzene	U	2
SURROGATE STANDARDS	Recovery (%)	Acceptance Limits
dibromofluoromethane	101	78-114
toluene-D8	100	88-110
4-bromofluorobenzene	94	86-115

U = Below quantitation limit

Lab Number: 11112-04  
Sample Designation: MW-4  
Date Sampled: 10/6/06  
Date Analyzed: 10/11/06  
Matrix: Water  
Instrument Dilution Factor: 5  
Analyst: LMM

VOLATILE ORGANICS  
SW 846 Method 5030B/8260B

	Concentration	Quantitation Limit
	ug/L	ug/L
methyl t-butyl ether (MTBE)	350	10
benzene	170	10
toluene	U	10
ethylbenzene	160	10
m&p-xylenes	1300	10
o-xylene	U	10
naphthalene	88	30
1,3,5-trimethylbenzene	190	10
1,2,4-trimethylbenzene	650	10
SURROGATE STANDARDS	Recovery (%)	Acceptance Limits
dibromofluoromethane	101	78-114
toluene-D8	99	88-110
4-bromofluorobenzene	97	86-115

U = Below quantitation limit

Lab Number: 11112-05  
Sample Designation: MW-5  
Date Sampled: 10/6/06  
Date Analyzed: 10/11/06  
Matrix: Water  
Instrument Dilution Factor: 1  
Analyst: LMM

VOLATILE ORGANICS  
SW 846 Method 5030B/8260B

	Concentration	Quantitation Limit
	ug/L	ug/L
methyl t-butyl ether (MTBE)	8	2
benzene	U	2
toluene	U	2
ethylbenzene	U	2
m&p-xylenes	U	2
o-xylene	U	2
naphthalene	U	5
1,3,5-trimethylbenzene	U	2
1,2,4-trimethylbenzene	U	2
SURROGATE STANDARDS	Recovery (%)	Acceptance Limits
dibromofluoromethane	102	78-114
toluene-D8	101	88-110
4-bromofluorobenzene	95	86-115

U = Below quantitation limit

Lab Number: 11112-06  
Sample Designation: Dup-1  
Date Sampled: 10/6/06  
Date Analyzed: 10/11/06  
Matrix: Water  
Instrument Dilution Factor: 1  
Analyst: LMM

VOLATILE ORGANICS  
SW 846 Method 5030B/8260B

	Concentration	Quantitation Limit
	ug/L	ug/L
methyl t-butyl ether (MTBE)	28	2
benzene	U	2
toluene	U	2
ethylbenzene	U	2
m&p-xylenes	U	2
o-xylene	U	2
naphthalene	U	5
1,3,5-trimethylbenzene	U	2
1,2,4-trimethylbenzene	U	2
SURROGATE STANDARDS	Recovery (%)	Acceptance Limits
dibromofluoromethane	103	78-114
toluene-D8	100	88-110
4-bromofluorobenzene	94	86-115

U = Below quantitation limit

Lab Number: 11112-07  
 Sample Designation: F.B.  
 Date Sampled: 10/6/06  
 Date Analyzed: 10/10/06  
 Matrix: Water  
 Instrument Dilution Factor: 1  
 Analyst: LMM

VOLATILE ORGANICS  
 SW 846 Method 5030B/8260B

	Concentration	Quantitation Limit
	ug/L	ug/L
methyl t-butyl ether (MTBE)	U	2
benzene	U	2
toluene	U	2
ethylbenzene	U	2
m&p-xylenes	U	2
o-xylene	U	2
naphthalene	U	5
1,3,5-trimethylbenzene	U	2
1,2,4-trimethylbenzene	U	2
SURROGATE STANDARDS	Recovery (%)	Acceptance Limits
dibromofluoromethane	102	78-114
toluene-D8	105	88-110
4-bromofluorobenzene	101	86-115

U = Below quantitation limit

**RL** Resource Laboratories, LLC  
 124 Heritage Avenue • Portsmouth, NH 03801  
 Phone: 603-436-2001 • Fax: 603-430-2100

# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

11112

## ANALYSIS REQUEST

Company Name: The Verderre Group Phone #: 802-654-8663  
 Company Address: 414 Research Hwy Suite 200 Colchester, VT 05446 FAX #: 802-654-8667  
 Project Manager: Martha Roy Project ID / Name: 05054 Simon's Berlin Store  
 Invoice To: Verderre Protocol: RCRA SDWA NPDES  
 MCP NHDES OTHER

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix			Preservation Method						Sampling			SAMPLER	Grab (G) or Composite (C)
			WATER	SOLID	OTHER	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	OTHER (Specify)	DATE	TIME			
11112-01	MW-1	2	X			X					10/6/06	1142	R			
-02	MW-2											1139				
-03	MW-3											1144				
-04	MW-4											1134				
-05	MW-5											1137				
-06	Dup-1											1200				
-07	FIB											1100				

☐ VOC 8260-NH List ☐ MADEP VPH ☐ MEGRO  
☐ VOC 8260 ☐ VOC 8015GRO ☐ VOC 624  
☐ VOC 8260 BTEX, MIBX, Naphthalene only  
☐ VOC 5242 ☐ VOC 5242 NH List  
☐ TPH Fingerprint ☐ MEGRO ☐ DFO 8015 ☐ EPH  
☐ 8270PAH ☐ 8270ABN ☐ 625  
☐ 8032 PCB ☐ 8081 Pesticides ☐ 608  
☐ O&G 1664 ☐ O&G SM520F  
☐ pH ☐ 600 ☐ Conductivity  
☐ TSS ☐ TDS ☐ TS  
☐ HCHA Metals ☐ Priority Pollutant Metals ☐ TAL Metals  
☐ Total Metals-list ☐ Dissolved Metals-list  
☐ Ammonia ☐ COD  
☐ T-Phosphate ☐ Phenol  
☐ Cyanide ☐ Sulfide  
☐ Nitrate ☐ Nitrite ☐ Ortho P ☐ Sulfate ☐ Bromide ☐ Chloride  
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP  
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC  
☐ TCLP Pesticide ☐ TCLP Herbicides (autocontract)  
☐ Standard Drinking Water Test ☐ Bacteria P/A

## TAT REQUESTED

Priority (24 hr) ☐  
 Expedited (48 hr) ☐  
 10 Business Days ☐  
 Other ☐

E-Mail Address

Quote #

PO #

## SPECIAL INSTRUCTIONS

## REPORTING INSTRUCTIONS

☐ FAX ☐ OTHER (specify) \_\_\_\_\_  
☐ PDF ☐ Excel Spreadsheet

RECEIVED ON ICE ☒ YES ☐ NO

TEMPERATURE \_\_\_\_\_ °C

Lab Use Only

## CUSTODY RECORD

Relinquished by Sampler:

Relinquished by:

Relinquished by:

Date

Date

Date

Time

Time

Time

Received by:

Received by:

Received by Laboratory:

Way Bill#:

Date

Date

Date

Time

Time

Time

10/7/06

1430